

**Section I. (The Claims)**

Please amend claims 7, 14, 17, 19, 23, 36, 43, 46, 48 and 52, and add claims 53-59 as set out below in the listing of claims 1-59 of the application.

1. (Previously Presented) A cleaning composition including an active cleaning combination (ACC) selected from the group consisting of: (a) a quaternary base in combination with at least one of alkali and alkaline earth base; and (b) a strong base in combination with an oxidant, wherein said cleaning composition is useful for removing photoresist and/or sacrificial anti-reflective coating (SARC) materials from a substrate having such material(s) thereon.

2. (Original) The cleaning composition of claim 1, which is devoid of hydroxylamine therein.

3. (Original) The cleaning composition of claim 1, wherein said ACC comprises (a).

4. (Original) The cleaning composition of claim 3, comprising the following components:

0.1 - 40.0 weight % organic quaternary base;  
0.01-5 weight % alkali or alkaline earth base;  
0-80 weight % solvent(s) and/or amine(s);  
0-5 weight % surfactant;  
0 – 10 weight % chelator/passivation agent; and  
0 – 98 weight % water,

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

5. (Previously Presented) The cleaning composition of claim 1, including at least one additional ingredient selected from the group consisting of stabilizers, dispersants, anti-oxidants, fillers, penetration agents, adjuvants, additives, and excipients.

6. (Original) The cleaning composition of claim 3, comprising the following components:

2-15 weight % organic quaternary base;  
~0.01-2 weight % alkali or alkaline earth base;

0-50 weight % solvent(s) and/or amine(s);  
~0.01-2 weight % surfactant;  
0 – 5 weight % chelator/passivation agent; and  
40 – 95 weight % water,

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

7. (Currently Amended) A cleaning composition selected from the group consisting of Formulations [[A-G]] A-C<sup>2</sup>, wherein all percentages are by weight, based on the total weight of the formulation:

#### Formulation A

5.36% benzyltrimethylammonium hydroxide  
0.28% potassium hydroxide  
3.0% 4-methylmorpholine N-oxide  
0.30% polyoxyethylene(150) dinonylphenyl ether  
0.08% 2-mercaptobenzimidazole  
91.0% water

#### Formulation B

5.36% benzyltrimethylammonium hydroxide  
0.28% potassium hydroxide  
3.0% 4-methylmorpholine N-oxide  
0.30% polyoxyethylene(150) dinonylphenyl ether  
0.20% 5-amino-1,3,4-thiadiazole-2-thiol  
90.86% water

#### Formulation C

3.60% benzyltrimethylammonium hydroxide  
0.27% potassium hydroxide  
3.5% 4-methylmorpholine N-oxide  
15.0% 4-(3-aminopropyl)morpholine  
0.30% polyoxyethylene(150) dinonylphenyl ether  
0.08% 2-mercaptobenzimidazole  
77.25% water

#### Formulation D

5.36% benzyltrimethylammonium hydroxide  
0.28% potassium hydroxide  
20.0% dimethyl sulfoxide

0.08% 2-mercaptopbenzimidazole  
74.28% water

#### Formulation E

5.36% benzyltrimethylammonium hydroxide  
0.28% potassium hydroxide  
10.0% tetramethylene sulfone  
0.30% oxirane, methyl-, polymer with oxirane, ether with [[2.2']] 2,2'-(oxidoimino)bis(ethanol)  
(2:1), N(-3(C9-11-isoalkyloxy)propyl)derivatives N(-3(C( 11-  
isoalkyloxy)propyl)derivatives, C<sub>10</sub>-rich  
0.08% 2-mercaptopbenzimidazole  
83.98% water

#### Formulation F

5.36% benzyltrimethylammonium hydroxide  
0.28% potassium hydroxide  
10.0% di(ethyleneglycol)butyl ether  
10.0% 2-(2-dimethylamino)ethoxyethanol  
0.30% oxirane, methyl-, polymer with oxirane, ether with [[2.2']] 2,2'-(oxidoimino)bis(ethanol)  
(2:1), N(-3(C9-11-isoalkyloxy)propyl)derivatives N(-3(C( 11-  
isoalkyloxy)propyl)derivatives, C<sub>10</sub>-rich  
74.06% water

#### Formulation G

5.36% benzyltrimethylammonium hydroxide  
0.28% potassium hydroxide  
10.0% tetramethylene sulfone  
10.0% di(ethyleneglycol)butyl ether  
0.10% oxirane, methyl-, polymer with oxirane, mono(octylphenyl)ether  
0.08% 2-mercaptopbenzimidazole  
74.18% water,

#### Formulation H

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	9.0 %
<u>potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>dinonylphenol ethoxylate, 7% aqueous solution</u>	4.3 %
<u>2-mercaptopbenzimidazole</u>	0.1 %
<u>aminopropylmorpholine</u>	20.0 %
<u>water</u>	59.02 %

#### Formulation I

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	9.0 %
<u>potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>dinonylphenol ethoxylate, 7% aqueous solution</u>	4.3 %

<u>2-mercaptopbenzimidazole</u>	0.1 %
<u>aminopropylmorpholine</u>	15.0 %
<u>water</u>	64.02 %

Formulation J

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	9.0 %
<u>potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>dinonylphenol ethoxylate, 7% aqueous solution</u>	4.3 %
<u>2-mercaptopbenzimidazole</u>	0.1 %
<u>aminopropylmorpholine</u>	10.0 %
<u>water</u>	69.02 %

Formulation K

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	13.4 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>KOH, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidizole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %
<u>water</u>	78.62 %

Formulation L

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	13.4 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>KOH, 45% aqueous solution</u>	1.2 %
<u>2-mercaptopbenzimidizole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %
<u>water</u>	78.02 %

Formulation M

<u>tetramethylammonium hydroxide, 25% aqueous solution</u>	5.85 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>KOH, 45% aqueous solution</u>	1.2 %
<u>2-mercaptopbenzimidizole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %
<u>water</u>	85.57 %

Formulation N

<u>tetramethylammonium hydroxide, 25% aqueous solution</u>	2.93 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>KOH, 45% aqueous solution</u>	1.2 %
<u>2-mercaptopbenzimidizole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %
<u>water</u>	88.49 %

Formulation O

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	7.2 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>KOH, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %
<u>water</u>	84.82 %

Formulation P

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	3.6 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>KOH, 45% aqueous solution</u>	1.2 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %
<u>water</u>	87.82 %

Formulation Q

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	3.6 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>KOH, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %
<u>water</u>	88.42 %

Formulation R

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	7.2 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>KOH, 45% aqueous solution</u>	0.3 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %
<u>water</u>	85.12 %,

Formulation S

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>3-amino-5-mercapto-1,2,4-triazole</u>	1.0 %
<u>water</u>	72.04 %

Formulation T

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %

<u>phosphoric acid (86 %)</u>	1.69 %
<u>4-methyl-2-phenyl-imidazole</u>	1.0 %
<u>water</u>	72.04 %

Formulation U

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>2-mercaptopthiazoline</u>	1.0 %
<u>water</u>	72.04 %

Formulation V

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>8-hydroxyquinoline</u>	1.0 %
<u>water</u>	72.04 %

Formulation W

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>1-phenyl-2-tetrazoline-5-thione</u>	1.0 %
<u>water</u>	72.04 %

Formulation X

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>gallic acid</u>	1.0 %
<u>water</u>	72.04 %

Formulation Y

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>salicylic acid</u>	1.0 %
<u>water</u>	72.04 %

Formulation Z

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>ascorbic acid</u>	1.0 %
<u>water</u>	72.04 %

Formulation A<sup>2</sup>

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	7.2 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>aminopropyl morpholine</u>	10 %
<u>4-methyl-2-phenyl-imidazole</u>	1.0 %
<u>water</u>	81.12 %

Formulation B<sup>2</sup>

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	7.2 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>aminopropyl morpholine</u>	10 %
<u>4-methyl-2-phenyl-imidazole</u>	0.5 %
<u>water</u>	81.62 %

Formulation C<sup>2</sup>

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	7.2 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>aminopropyl morpholine</u>	10 %
<u>4-methyl-2-phenyl-imidazole</u>	1.0 %
<u>water</u>	81.02 %
<u>dinonylphenol polyoxyethylene</u>	0.1 %

wherein said cleaning composition is useful for removing photoresist and/or sacrificial anti-reflective coating (SARC) materials from a substrate having such material(s) thereon.

8. (Withdrawn) The cleaning composition of claim 1, wherein said ACC comprises (b).

9. (Withdrawn) The cleaning composition of claim 8, which includes an aqueous solution of at least one oxidant, a strong base, optionally a chelator and optionally a co-solvent and/or a surfactant.

10. (Original) The cleaning composition of claim 1, wherein the ACC comprises potassium hydroxide.
11. (Withdrawn) The cleaning composition of claim 8, including the following components:  
0.1-30 wt % strong base;  
0.01-30 wt % oxidant;  
0-10 wt % chelator;  
0-5 wt % surfactant;  
0-50 wt % co-solvent; and  
20-98.9 wt % deionized water,  
wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.
12. (Withdrawn) The cleaning composition of claim 11, wherein the strong base comprises a base species selected from the group consisting of potassium hydroxide and alkylammonium hydroxides and choline hydroxide.
13. (Withdrawn) The cleaning composition of claim 8, wherein the oxidant comprises an oxidant species selected from the group consisting of hydrogen peroxide, amine-N-oxides, perborate salts, persulfate salts, and combinations of two or more of the foregoing.
14. (Currently Amended) The cleaning composition of claim [[8]] 1, including further comprising a chelator.
15. (Original) The cleaning composition of claim 14, wherein the chelator comprises a chelator species selected from the group consisting of: triazoles; triazoles substituted with substituent(s) selected from the group consisting of C<sub>1</sub>-C<sub>8</sub> alkyl, amino, thiol, mercapto, imino, carboxy and nitro; thiazoles; tetrazoles; imidazoles; phosphates; thiols; azines; glycerols; amino acids; carboxylic acids; alcohols; amides; and quinolines.
16. (Original) The cleaning composition of claim 14, wherein the chelator comprises a chelator species selected from the group consisting of: 1,2,4-triazole; benzotriazole; tolyltriazole; 5-phenyl-benzotriazole; 5-nitro-benzotriazole; 1-amino-1,2,4-triazole; hydroxybenzotriazole; 2-

(5-amino-pentyl)-benzotriazole; 1-amino-1,2,3-triazole; 1-amino-5-methyl-1,2,3-triazole; 3-amino-1,2,4-triazole; 3-mercaptop-1,2,4-triazole; 3-isopropyl-1,2,4-triazole; 5-phenylthiol-benzotriazole; halo-benzotriazoles wherein halo is selected from the group consisting of F, Cl, Br and I; naphthotriazole; 2-mercaptopbenzoimidazole; 2-mercaptopbenzothiazole; 5-aminotetrazole; 5-amino-1,3,4-thiadiazole-2-thiol; 2,4-diamino-6-methyl-1,3,5-triazine; thiazole; triazine; methyltetrazole; 1,3-dimethyl-2-imidazolidinone; 1,5-pentamethylenetetrazole; 1-phenyl-5-mercaptotetrazole; diaminomethyltriazine; mercaptobenzothiazole; imidazoline thione; mercaptobenzimidazole; 4-methyl-4H-1,2,4-triazole-3-thiol; 5-amino-1,3,4-thiadiazole-2-thiol; benzothiazole; tritolyphosphate; indazole; guanine; adenine; glycerol; thioglycerol; nitrilotriacetic acid; salicylamide; iminodiacetic acid; benzoguanamine; melamine; thiocyanuric acid; anthranilic acid; 8-hydroxyquinoline; 5-carboxylic acid-benzotriazole; 3-mercaptopropanol; boric acid; and iminodiacetic acid.

17. (Currently Amended) The composition of claim 1 [[8]], further comprising a surfactant.

18. (Original) The composition of claim 17, wherein the surfactant comprises a surfactant species selected from the group consisting of: fluoroalkyl surfactants; polyethylene glycols; polypropylene glycols; polyethylene glycol ethers; polypropylene glycol ethers; carboxylic acid salts; dodecylbenzenesulfonic acid and salts thereof; polyacrylate polymers; dinonylphenyl polyoxyethylene; silicone polymers; modified silicone polymers; acetylenic diols; modified acetylenic diols, alkylammonium salts; modified alkylammonium salts; and combinations of two or more of the foregoing.

19. (Currently Amended) The composition of claim 1 [[8]], further comprising a co-solvent.

20. (Original) The composition of claim 19, wherein the co-solvent comprises a co-solvent species selected from the group consisting of: amines; glycols; glycol ethers; polyglycol ethers; and combinations of two or more of the foregoing.

21. (Withdrawn) The composition of claim 19, wherein the co-solvent comprises a co-solvent species selected from the group consisting of: dimethyldiglycolamine; 1,8-diazabicyclo[5.4.0]undecene; aminopropylmorpholine; triethanolamine; methylethanolamine; diethylene glycol; propylene glycol; neopentyl glycol; hydroxyethylmorpholine; aminopropylmorpholine; di(ethylene glycol)monoethyl ether; di(propylene glycol)propyl ether;

ethylene glycol phenyl ether; di(propylene glycol) butyl ether; butyl carbitol; polyglycol ethers; and combinations of two or more of the foregoing.

22. (Withdrawn) The cleaning composition of claim 8, including:

- 0.1-30 wt % strong base
- 2-30 wt % oxidant
- 0-10 wt % chelator
- 0-5 wt % surfactant
- 20-98 wt % deionized water

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

23. (Withdrawn) The cleaning composition of claim 1, selected from the group consisting of Formulations [[H-G<sup>2</sup>]] D<sup>2</sup>-R<sup>2</sup>, wherein all percentages are by weight, based on the total weight of the formulation:

Formulation [[H]] D<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
3-amino-5-mercapto-1,2,4-triazole	0.1 %
water	73.9 %

Formulation [[I]] E<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
ammonium tetrathiomolybdate	0.1 %
water	73.9 %

Formulation [[J]] F<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptopbenzimidazole	0.1 %
aminopropylmorpholine	20.0 %
water	53.9 %

Formulation [[K]] G<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptobenzimidazole	0.1 %
N-ethylmorpholine	20.0 %
water	53.9 %

Formulation [[L]] H<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptobenzimidazole	0.1 %
aminoethylpiperidine	20.0 %
water	53.9 %

Formulation [[M]] I<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
3-amino-5-1,2,4-triazole	0.1 %
aminopropylmorpholine	20.0 %
water	53.9 %

Formulation [[N]] J<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
3-amino-5-1,2,4-triazole	0.1 %
aminopropylmorpholine	10.0 %
water	63.9 %

Formulation [[O]] K<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptobenzimidazole	0.1 %
aminopropylmorpholine	20.0 %
water	53.9 %

Formulation [[P]] L<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptobenzimidazole	0.1 %

aminopropylmorpholine	10.0 %
water	63.9 %

Formulation Q

benzyltrimethylammonium hydroxide, 40% aqueous solution	9.0 %
potassium hydroxide, 45% aqueous solution	0.6 %
N methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2 mercaptobenzimidazole	0.1 %
aminopropylmorpholine	20.0 %
water	59.02 %

Formulation R

benzyltrimethylammonium hydroxide, 40% aqueous solution	9.0 %
potassium hydroxide, 45% aqueous solution	0.6 %
N methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2 mercaptobenzimidazole	0.1 %
aminopropylmorpholine	15.0 %
water	64.02 %

Formulation S

benzyltrimethylammonium hydroxide, 40% aqueous solution	9.0 %
potassium hydroxide, 45% aqueous solution	0.6 %
N methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2 mercaptobenzimidazole	0.1 %
aminopropylmorpholine	10.0 %
water	69.02 %

Formulation T

benzyltrimethylammonium hydroxide, 40% aqueous solution	13.4 %
N methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	0.6 %
2 mercaptobenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	78.62 %

Formulation U

benzyltrimethylammonium hydroxide, 40% aqueous solution	13.4 %
N methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	1.2 %
2 mercaptobenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	78.02 %

Formulation V

tetramethylammonium hydroxide, 25% aqueous solution	5.85 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	1.2 %
2-mercaptopbenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	85.57 %

Formulation W

tetramethylammonium hydroxide, 25% aqueous solution	2.93 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	1.2 %
2-mercaptopbenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	88.49 %

Formulation X

benzyltrimethylammonium hydroxide, 40% aqueous solution	7.2 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	0.6 %
2-mercaptopbenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	84.82 %

Formulation Y

benzyltrimethylammonium hydroxide, 40% aqueous solution	3.6 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	1.2 %
2-mercaptopbenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	87.82 %

Formulation Z

benzyltrimethylammonium hydroxide, 40% aqueous solution	3.6 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	0.6 %
2-mercaptopbenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	88.42 %

Formulation A<sup>2</sup>

benzyltrimethylammonium hydroxide, 40% aqueous solution	7.2 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	0.3 %
2-mercaptopbenzimidazole	0.08 %

dinonylphenol polyoxyethylene	0.3 %
water	85.12 %.

Formulation [[B<sup>2</sup>]] M<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
5-aminotetrazole	0.1 %
water	93.9 %

Formulation [[C<sup>2</sup>]] N<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
2,4-diamino-6-methyl-1,3,5-triazine	0.1 %
water	93.9 %

Formulation [[D<sup>2</sup>]] O<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
5-amino-1,3,4-thiadiazole-2-thiol	0.1 %
water	93.9 %

Formulation [[E<sup>2</sup>]] P<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
1,2,4-triazole	0.1 %
water	93.9 %

Formulation [[F<sup>2</sup>]] Q<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
2,4-dihydroxy-6-methylpyrimidine	0.1 %
water	93.9 %

Formulation [[G<sup>2</sup>]] R<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
8-hydroxyquinoline	0.1 %
water	93.9 %.

24. (Withdrawn) A method of removing photoresist and/or SARC material from a substrate having said material thereon, said method comprising contacting the substrate with a cleaning composition for sufficient time to at least partially remove said material from the substrate, wherein the cleaning composition includes an active cleaning combination (ACC) selected from

the group consisting of: (a) a quaternary base in combination with at least one of alkali and alkaline earth base; and (b) a strong base in combination with an oxidant.

25. (Withdrawn) The method of claim 24, wherein the substrate comprises a semiconductor device structure.

26. (Withdrawn) The method of claim 24, wherein the material comprises photoresist.

27. (Withdrawn) The method of claim 24, wherein the material comprises SARC material.

28. (Withdrawn) The method of claim 27, wherein the SARC material has been applied to a semiconductor device structure to minimize reflectivity variations during photolithographic patterning on the semiconductor device structure.

29. (Withdrawn) The method of claim 24, wherein said contacting is carried out for a time of from about 10 to about 45 minutes.

30. (Withdrawn) The method of claim 24, wherein said contacting is carried out at temperature in a range of from about 50°C to about 80°C.

31. (Withdrawn) The method of claim 24, wherein the composition is devoid of hydroxylamine therein.

32. (Withdrawn) The method of claim 24, wherein said ACC comprises (a).

33. (Withdrawn) The method of claim 32, wherein the composition comprises the following components:

- 0.1 - 40.0 weight % organic quaternary base;
- 0.01-5 weight % alkali or alkaline earth base;
- 0-80 weight % solvent(s) and/or amine(s);
- 0-5 weight % surfactant;
- 0 – 10 weight % chelator/passivation agent; and
- 0 – 98 weight % water,

wherein percentages of the components are percentages by weight, based on total weight of the

composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

34. (Withdrawn) The method of claim 24, wherein the composition includes at least one additional ingredient selected from the group consisting of stabilizers, dispersants, anti-oxidants, fillers, penetration agents, adjuvants, additives, fillers, and excipients.

35. (Withdrawn) The method of claim 32, wherein the composition comprises the following components:

2-15 weight % organic quaternary base;  
~0.01-2 weight % alkali or alkaline earth base;  
0-50 weight % solvent(s) and/or amine(s);  
~0.01-2 weight % surfactant;  
0 – 5 weight % chelator/passivation agent; and  
40 – 95 weight % water,

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

36. (Withdrawn) A method of removing photoresist and/or SARC material from a substrate having said material thereon, said method comprising contacting the substrate with a cleaning composition for sufficient time to at least partially remove said material from the substrate, ~~The method of claim 24~~, wherein the cleaning composition is selected from the group consisting of Formulations [[A-G]] A-C<sup>2</sup>, wherein all percentages are by weight, based on the total weight of the formulation:

Formulation A

5.36% benzyltrimethylammonium hydroxide  
0.28% potassium hydroxide  
3.0% 4-methylmorpholine N-oxide  
0.30% polyoxyethylene(150) dinonylphenyl ether  
0.08% 2-mercaptopbenzimidazole  
91.0% water

Formulation B

5.36% benzyltrimethylammonium hydroxide

0.28% potassium hydroxide  
 3.0% 4-methylmorpholine N-oxide  
 0.30% polyoxyethylene(150) dinonylphenyl ether  
 0.20% 5-amino-1,3,4-thiadiazole-2-thiol  
 90.86% water

Formulation C

3.60% benzyltrimethylammonium hydroxide  
 0.27% potassium hydroxide  
 3.5% 4-methylmorpholine N-oxide  
 15.0% 4-(3-aminopropyl)morpholine  
 0.30% polyoxyethylene(150) dinonylphenyl ether  
 0.08% 2-mercaptopbenzimidazole  
 77.25% water

Formulation D

5.36% benzyltrimethylammonium hydroxide  
 0.28% potassium hydroxide  
 20.0% dimethyl sulfoxide  
 0.08% 2-mercaptopbenzimidazole  
 74.28% water

Formulation E

5.36% benzyltrimethylammonium hydroxide  
 0.28% potassium hydroxide  
 10.0% tetramethylene sulfone  
 0.30% oxirane, methyl-, polymer with oxirane, ether with [[2.2']] 2,2'-(oxidoimino)bis(ethanol)  
 (2:1), N(-3(C9-11-isoalkyloxy)propyl)derivatives N(-3(C( 11-  
isalkyloxy)propyl)derivatives, C<sub>10</sub>-rich  
 0.08% 2-mercaptopbenzimidazole  
 83.98% water

Formulation F

5.36% benzyltrimethylammonium hydroxide  
 0.28% potassium hydroxide  
 10.0% di(ethyleneglycol)butyl ether  
 10.0% 2-(2-dimethylamino)ethoxyethanol  
 0.30% oxirane, methyl-, polymer with oxirane, ether with [[2.2']] 2,2'-(oxidoimino)bis(ethanol)  
 (2:1), N(-3(C9-11-isoalkyloxy)propyl)derivatives N(-3(C( 11-  
isalkyloxy)propyl)derivatives, C<sub>10</sub>-rich  
 74.06% water

Formulation G

5.36% benzyltrimethylammonium hydroxide  
 0.28% potassium hydroxide  
 10.0% tetramethylene sulfone

10.0% di(ethyleneglycol)butyl ether  
 0.10% oxirane, methyl-, polymer with oxirane, mono(octylphenyl)ether  
 0.08% 2-mercaptopbenzimidazole  
 74.18% water,

Formulation H

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	9.0 %
<u>potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>dinonylphenol ethoxylate, 7% aqueous solution</u>	4.3 %
<u>2-mercaptopbenzimidazole</u>	0.1 %
<u>aminopropylmorpholine</u>	20.0 %
<u>water</u>	59.02 %

Formulation I

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	9.0 %
<u>potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>dinonylphenol ethoxylate, 7% aqueous solution</u>	4.3 %
<u>2-mercaptopbenzimidazole</u>	0.1 %
<u>aminopropylmorpholine</u>	15.0 %
<u>water</u>	64.02 %

Formulation J

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	9.0 %
<u>potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>dinonylphenol ethoxylate, 7% aqueous solution</u>	4.3 %
<u>2-mercaptopbenzimidazole</u>	0.1 %
<u>aminopropylmorpholine</u>	10.0 %
<u>water</u>	69.02 %

Formulation K

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	13.4 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>KOH, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidizole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %
<u>water</u>	78.62 %

Formulation L

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	13.4 %
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	7.0 %
<u>KOH, 45% aqueous solution</u>	1.2 %
<u>2-mercaptopbenzimidizole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %

<u>water</u>	<u>78.02 %</u>
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Formulation M

<u>tetramethylammonium hydroxide, 25% aqueous solution</u>	<u>5.85 %</u>
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	<u>7.0 %</u>
<u>KOH, 45% aqueous solution</u>	<u>1.2 %</u>
<u>2-mercaptopbenzimidazole</u>	<u>0.08 %</u>
<u>dinonylphenol polyoxyethylene</u>	<u>0.3 %</u>
<u>water</u>	<u>85.57 %</u>

Formulation N

<u>tetramethylammonium hydroxide, 25% aqueous solution</u>	<u>2.93 %</u>
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	<u>7.0 %</u>
<u>KOH, 45% aqueous solution</u>	<u>1.2 %</u>
<u>2-mercaptopbenzimidazole</u>	<u>0.08 %</u>
<u>dinonylphenol polyoxyethylene</u>	<u>0.3 %</u>
<u>water</u>	<u>88.49 %</u>

Formulation O

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	<u>7.2 %</u>
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	<u>7.0 %</u>
<u>KOH, 45% aqueous solution</u>	<u>0.6 %</u>
<u>2-mercaptopbenzimidazole</u>	<u>0.08 %</u>
<u>dinonylphenol polyoxyethylene</u>	<u>0.3 %</u>
<u>water</u>	<u>84.82 %</u>

Formulation P

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	<u>3.6 %</u>
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	<u>7.0 %</u>
<u>KOH, 45% aqueous solution</u>	<u>1.2 %</u>
<u>2-mercaptopbenzimidazole</u>	<u>0.08 %</u>
<u>dinonylphenol polyoxyethylene</u>	<u>0.3 %</u>
<u>water</u>	<u>87.82 %</u>

Formulation Q

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	<u>3.6 %</u>
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	<u>7.0 %</u>
<u>KOH, 45% aqueous solution</u>	<u>0.6 %</u>
<u>2-mercaptopbenzimidazole</u>	<u>0.08 %</u>
<u>dinonylphenol polyoxyethylene</u>	<u>0.3 %</u>
<u>water</u>	<u>88.42 %</u>

Formulation R

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	<u>7.2 %</u>
<u>N-methylmorpholine oxide, 50% aqueous solution</u>	<u>7.0 %</u>

<u>KOH, 45% aqueous solution</u>	0.3 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>dinonylphenol polyoxyethylene</u>	0.3 %
<u>water</u>	85.12 %,

Formulation S

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>3-amino-5-mercaptop-1,2,4-triazole</u>	1.0 %
<u>water</u>	72.04 %

Formulation T

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>4-methyl-2-phenyl-imidazole</u>	1.0 %
<u>water</u>	72.04 %

Formulation U

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>2-mercaptothiazoline</u>	1.0 %
<u>water</u>	72.04 %

Formulation V

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>8-hydroxyquinoline</u>	1.0 %
<u>water</u>	72.04 %

Formulation W

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>1-phenyl-2-tetrazoline-5-thione</u>	1.0 %

<u>water</u>	72.04 %
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Formulation X

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>gallic acid</u>	1.0 %
<u>water</u>	72.04 %

Formulation Y

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>salicylic acid</u>	1.0 %
<u>water</u>	72.04 %

Formulation Z

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	22.26 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>methyldiethanolamine</u>	2.33 %
<u>phosphoric acid (86 %)</u>	1.69 %
<u>ascorbic acid</u>	1.0 %
<u>water</u>	72.04 %

Formulation A<sup>2</sup>

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	7.2 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>aminopropyl morpholine</u>	10 %
<u>4-methyl-2-phenyl-imidazole</u>	1.0 %
<u>water</u>	81.12 %

Formulation B<sup>2</sup>

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	7.2 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %
<u>2-mercaptopbenzimidazole</u>	0.08 %
<u>aminopropyl morpholine</u>	10 %
<u>4-methyl-2-phenyl-imidazole</u>	0.5 %
<u>water</u>	81.62 %

Formulation C<sup>2</sup>

<u>benzyltrimethylammonium hydroxide, 40% aqueous solution</u>	7.2 %
<u>Potassium hydroxide, 45% aqueous solution</u>	0.6 %

<u>2-mercaptobenzimidazole</u>	<u>0.08 %</u>
<u>aminopropyl morpholine</u>	<u>10 %</u>
<u>4-methyl-2-phenyl-imidazole</u>	<u>1.0 %</u>
<u>water</u>	<u>81.02 %</u>
<u>dinonylphenol polyoxyethylene</u>	<u>0.1 %.</u>

37. (Withdrawn) The method of claim 24, wherein said ACC comprises (b).
38. (Withdrawn) The method of claim 37, wherein the cleaning composition includes an aqueous solution of at least one oxidant, a strong base, optionally a chelator and optionally a co-solvent and/or a surfactant.
39. (Withdrawn) The method of claim 24, wherein the ACC comprises potassium hydroxide.
40. (Withdrawn) The method of claim 37, wherein the cleaning composition includes the following components:
- 0.1-30 wt % strong base;
  - 0.01-30 wt % oxidant;
  - 0-10 wt % chelator;
  - 0-5 wt % surfactant;
  - 0-50 wt % co-solvent; and
  - 20-98.9 wt % deionized water,
- wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.
41. (Withdrawn) The method of claim 40, wherein the strong base comprises a base species selected from the group consisting of potassium hydroxide and alkylammonium hydroxides and choline hydroxide.
42. (Withdrawn) The method of claim 37, wherein the oxidant comprises an oxidant species selected from the group consisting of hydrogen peroxide, amine-N-oxides, perborate salts, persulfate salts, and combinations of two or more of the foregoing.
43. (Withdrawn) The method of claim 24 [[37]], wherein the cleaning composition further comprises including a chelator.

44. (Withdrawn) The method of claim 43, wherein the chelator comprises a chelator species selected from the group consisting of: triazoles; triazoles substituted with substituent(s) selected from the group consisting of C<sub>1</sub>-C<sub>8</sub> alkyl, amino, thiol, mercapto, imino, carboxy and nitro; thiazoles; tetrazoles; imidazoles; phosphates; thiols; azines; glycerols; amino acids; carboxylic acids; alcohols; amides; and quinolines.

45. (Withdrawn) The method of claim 43, wherein the chelator comprises a chelator species selected from the group consisting of: 1,2,4-triazole; benzotriazole; tolyltriazole; 5-phenylbenzotriazole; 5-nitro-benzotriazole; 1-amino-1,2,4-triazole; hydroxybenzotriazole; 2-(5-amino-pentyl)-benzotriazole; 1-amino-1,2,3-triazole; 1-amino-5-methyl-1,2,3-triazole; 3-amino-1,2,4-triazole; 3-mercaptop-1,2,4-triazole; 3-isopropyl-1,2,4-triazole; 5-phenylthiol-benzotriazole; halo-benzotriazoles wherein halo is selected from the group consisting of F, Cl, Br and I; naphthotriazole; 2-mercaptopbenzoimidazole; 2-mercaptopbenzothiazole; 5-aminotetrazole; 5-amino-1,3,4-thiadiazole-2-thiol; 2,4-diamino-6-methyl-1,3,5-triazine; thiazole; triazine; methyltetrazole; 1,3-dimethyl-2-imidazolidinone; 1,5-pentamethylenetetrazole; 1-phenyl-5-mercaptotetrazole; diaminomethyltriazine; mercaptobenzothiazole; imidazoline thione; mercaptobenzimidazole; 4-methyl-4H-1,2,4-triazole-3-thiol; 5-amino-1,3,4-thiadiazole-2-thiol; benzothiazole; tritolyl phosphate; indazole; guanine; adenine; glycerol; thioglycerol; nitrilotriacetic acid; salicylamide; iminodiacetic acid; benzoguanamine; melamine; thiocyanuric acid; anthranilic acid; 8-hydroxyquinoline; 5-carboxylic acid-benzotriazole; 3-mercaptopropanol; boric acid; and iminodiacetic acid.

46. (Withdrawn) The method of claim 24 [[37]], wherein the cleaning composition further comprises a surfactant.

47. (Withdrawn) The method of claim 46, wherein the surfactant comprises a surfactant species selected from the group consisting of: fluoroalkyl surfactants; polyethylene glycols; polypropylene glycols; polyethylene glycol ethers; polypropylene glycol ethers; carboxylic acid salts; dodecylbenzenesulfonic acid and salts thereof; polyacrylate polymers; dinonylphenyl polyoxyethylene; silicone polymers; modified silicone polymers; acetylenic diols; modified acetylenic diols, alkylammonium salts; modified alkylammonium salts; and combinations of two or more of the foregoing.

48. (Withdrawn) The method of claim 24 [[37]], wherein the cleaning composition further comprises includes a co-solvent.

49. (Withdrawn) The method of claim 48, wherein the co-solvent comprises a co-solvent species selected from the group consisting of: amines; glycols; glycol ethers; polyglycol ethers; and combinations of two or more of the foregoing.

50. (Withdrawn) The method of claim 48, wherein the co-solvent comprises a co-solvent species selected from the group consisting of: dimethyldiglycolamine; 1,8-diazabicyclo[5.4.0]undecene; aminopropylmorpholine; triethanolamine; methylethanolamine; diethylene glycol; propylene glycol; neopentyl glycol; hydroxyethylmorpholine; aminopropylmorpholine; di(ethylene glycol)monoethyl ether; di(propylene glycol)propyl ether; ethylene glycol phenyl ether; di(propylene glycol) butyl ether; butyl carbitol; polyglycol ethers; and combinations of two or more of the foregoing.

51. (Withdrawn) The method of claim 37, wherein the composition includes:

0.1-30 wt % strong base

2-30 wt % oxidant

0-10 wt % chelator

0-5 wt % surfactant

20-98 wt % deionized water

wherein percentages of the components are percentages by weight, based on total weight of the composition, and wherein the total of the weight percentages of such components of the composition does not exceed 100 weight %.

52. (Withdrawn) The method of claim 24, wherein the cleaning composition is selected from the group consisting of Formulations [[H-G<sup>2</sup>]] D<sup>2</sup>-R<sup>2</sup>, wherein all percentages are by weight, based on the total weight of the formulation:

#### Formulation [[H]] D<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
3-amino-5-mercapto-1,2,4-triazole	0.1 %
water	73.9 %

Formulation [[I]] E<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
ammonium tetrathiomolybdate	0.1 %
water	73.9 %

Formulation [[J]] F<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptopbenzimidazole	0.1 %
aminopropylmorpholine	20.0 %
water	53.9 %

Formulation [[K]] G<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptopbenzimidazole	0.1 %
N-ethylmorpholine	20.0 %
water	53.9 %

Formulation [[L]] H<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptopbenzimidazole	0.1 %
aminoethylpiperidine	20.0 %
water	53.9 %

Formulation [[M]] I<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
3-amino-5-1,2,4-triazole	0.1 %
aminopropylmorpholine	20.0 %
water	53.9 %

Formulation [[N]] J<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
3-amino-5-1,2,4-triazole	0.1 %
aminopropylmorpholine	10.0 %

water	63.9 %
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**Formulation [[O]] K<sup>2</sup>**

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptopbenzimidazole	0.1 %
aminopropylmorpholine	20.0 %
water	53.9 %

**Formulation [[P]] L<sup>2</sup>**

tetramethylammonium hydroxide, 25% aqueous solution	14.7 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptopbenzimidazole	0.1 %
aminopropylmorpholine	10.0 %
water	63.9 %

**Formulation Q**

benzyltrimethylammonium hydroxide, 40% aqueous solution	9.0 %
potassium hydroxide, 45% aqueous solution	0.6 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptopbenzimidazole	0.1 %
aminopropylmorpholine	20.0 %
water	59.02 %

**Formulation R**

benzyltrimethylammonium hydroxide, 40% aqueous solution	9.0 %
potassium hydroxide, 45% aqueous solution	0.6 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptopbenzimidazole	0.1 %
aminopropylmorpholine	15.0 %
water	64.02 %

**Formulation S**

benzyltrimethylammonium hydroxide, 40% aqueous solution	9.0 %
potassium hydroxide, 45% aqueous solution	0.6 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
dinonylphenol ethoxylate, 7% aqueous solution	4.3 %
2-mercaptopbenzimidazole	0.1 %
aminopropylmorpholine	10.0 %
water	69.02 %

Formulation T

benzyltrimethylammonium hydroxide, 40% aqueous solution	13.4 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	0.6 %
2-mercaptopbenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	78.62 %

Formulation U

benzyltrimethylammonium hydroxide, 40% aqueous solution	13.4 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	1.2 %
2-mercaptopbenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	78.02 %

Formulation V

tetramethylammonium hydroxide, 25% aqueous solution	5.85 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	1.2 %
2-mercaptopbenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	85.57 %

Formulation W

tetramethylammonium hydroxide, 25% aqueous solution	2.93 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	1.2 %
2-mercaptopbenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	88.49 %

Formulation X

benzyltrimethylammonium hydroxide, 40% aqueous solution	7.2 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	0.6 %
2-mercaptopbenzimidazole	0.08 %
dinonylphenol polyoxyethylene	0.3 %
water	84.82 %

Formulation Y

benzyltrimethylammonium hydroxide, 40% aqueous solution	3.6 %
N-methylmorpholine oxide, 50% aqueous solution	7.0 %
KOH, 45% aqueous solution	1.2 %
2-mercaptopbenzimidazole	0.08 %

<del>dinonylphenol polyoxyethylene</del>	0.3 %
<del>water</del>	87.82 %

Formulation Z

<del>benzyltrimethylammonium hydroxide, 40% aqueous solution</del>	3.6 %
<del>N-methylmorpholine oxide, 50% aqueous solution</del>	7.0 %
<del>KOH, 45% aqueous solution</del>	0.6 %
<del>2-mercaptopbenzimidazole</del>	0.08 %
<del>dinonylphenol polyoxyethylene</del>	0.3 %
<del>water</del>	88.42 %

Formulation A<sup>3</sup>

<del>benzyltrimethylammonium hydroxide, 40% aqueous solution</del>	7.2 %
<del>N-methylmorpholine oxide, 50% aqueous solution</del>	7.0 %
<del>KOH, 45% aqueous solution</del>	0.3 %
<del>2-mercaptopbenzimidazole</del>	0.08 %
<del>dinonylphenol polyoxyethylene</del>	0.3 %
<del>water</del>	85.12 %

Formulation [[B<sup>2</sup>]] M<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
5-aminotetrazole	0.1 %
water	93.9 %

Formulation [[C<sup>2</sup>]] N<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
2,4-diamino-6-methyl-1,3,5-triazine	0.1 %
water	93.9 %

Formulation [[D<sup>2</sup>]] O<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
5-amino-1,3,4-thiadiazole-2-thiol	0.1 %
water	93.9 %

Formulation [[E<sup>2</sup>]] P<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
1,2,4-triazole	0.1 %
water	93.9 %

Formulation [[F<sup>2</sup>]] Q<sup>2</sup>

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
2,4-dihydroxy-6-methylpyrimidine	0.1 %
water	93.9 %

**Formulation [[G<sup>2</sup>]] R<sup>2</sup>**

tetramethylammonium hydroxide, 25% aqueous solution	4.0 %
hydrogen peroxide, 30% aqueous solution	2.0 %
8-hydroxyquinoline	0.1 %
water	93.9 %.

53. (New) The cleaning composition of claim 1, wherein the quaternary base comprises an organic quaternary ammonium base.

54. (New) The cleaning composition of claim 1, wherein the quaternary base comprises benzyltrimethylammonium hydroxide.

55. (New) The cleaning composition of claim 1, wherein the ACC comprises benzyltrimethylammonium hydroxide and potassium hydroxide.

56. (New) The cleaning composition of claim 19, wherein the co-solvent comprises a glycol ether.

57. (New) The cleaning composition of claim 1 comprising benzyltrimethylammonium hydroxide; potassium hydroxide; tetramethylene sulfone; di(ethyleneglycol)butyl ether; oxirane, methyl-, polymer with oxirane, mono(octylphenyl)ether; 2-mercaptopbenzimidazole; and water.

58. (New) A method of making a semiconductor device comprising contacting the substrate with the cleaning composition of claim 1 for sufficient time to at least partially remove said material from the substrate.

59. (New) The method of claim 58, wherein the oxidant comprises an oxidant species selected from the group consisting of amine-N-oxides, perborate salts, persulfate salts, and combinations of two or more of the foregoing.